

an encoder to encode the data as effective data of a DVD-Audio format comprising an audio manager (AMG) having information on audio titles (ATS), each ATS having audio title set information (ATSI) followed by contiguous audio objects (AOBs) in an audio title set (AUDIO\_TS) of the DVD; and

an optical pickup to record the data on the DVD.

36. (NEW) An apparatus to record data on a DVD, comprising:

an encoder to encode data comprising an audio manager (AMG) having information on audio titles (ATS), each ATS having audio title set information (ATSI) followed by contiguous audio objects (AOBs) in an audio title set (AUDIO\_TS) of the DVD, said encoder to indicate and differentiate sampling frequencies for the audio data to be recorded using the ATSI, the sampling frequencies including 176.4 Khz and 192 Khz; and

an optical pickup to record the data on the DVD.

37. (NEW) The apparatus as claimed in claim 36, wherein the sampling frequencies further comprise 48 Khz, 96 Khz, 44.1 Khz, and 88.2 Khz.

38. (New) The apparatus as claimed in claim 37, wherein the ATSI further indicates an audio coding mode is linear pulse code modulated (PCM) audio, and first to third quantization bit numbers are respectively 16bits, 20bits and 24bits.

39. (NEW) The apparatus as claimed in claim 37, wherein the ATSI further indicates an audio coding mode is a compression coding system, and first to third quantization bit numbers of the audio data before compression are respectively 16bits, 20bits and 24bits.